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AUG , 1983

533-6108

James H. Anthony, Project Director

Intermountain Power Project

P. O. Box 111, Room 931

Los Angeles, CA 90051

RE: Approval Order for Construction  
Modification of IPP, Millard  
County

Dear Mr. Anthony:

On August 27, 1983, the Executive Secretary published a notice of intent to approve the downsizing of the Intermountain Power Project (IPP) from four to two units and modifications of boiler ratings and air pollution control facilities for the Millard County plant. A hearing was held to gather comments on your proposal on September 26, 1983. All comments received have been

IPP		
DIST	CC	AT
JHA	✓	✓
VLP	✓	✓
RLN	✓	✓
JA	✓	✓
APE		
LEJ		
RCB		
PPW		
ASB		
SRS		
HDB		
DWF	✓	✓
RLR		
ENF		
TBA		
JAA		
DJW		
HTD		
JJC	✓	✓
REG		
GEB		
NFB	✓	✓
AAG		
RGH		
TMO		
LEE		
JPS		
AWB	✓	✓
EDR	✓	✓
FMR	✓	✓
RTP	✓	✓
FILE	X	✓

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closely evaluated and appropriate changes are hereby made to the approval order originally issued by the state on December 31, 1980. The conditions of the PSD permit issued by EPA on June 8, 1980, have also been consolidated in this modified order. This modified order also contains the approval for the auxiliary boilers which were omitted in the 1980 approval order.

This air quality approval order authorizes the modifications as presented in your notices of intent dated April 14, 1983, and April 5, 1984 and subsequent negotiations. The following conditions apply:

1. The main boilers shall be constructed and operated according to the specifications in the contract document number 2010N, as submitted to the Executive Secretary on April 14, 1983.
2. The sulfur dioxide scrubbers for the main boilers shall be constructed and operated according to the specifications in the contract document number 9255.62.0202, as submitted on April 14, 1983.
3. The fabric filters for the main boilers shall be constructed and operated according to the specifications in the contract document number 9255.62.0203, as submitted on April 14, 1983.
4. No main boiler unit shall exceed  $8.352 \times 10^9$  BTU/hr heat

input rate, as determined by ASTM Method D3176, D2015-77, or D3286-82 and the coal feed rate measured by the plant instrumentation. Records of heat input will be kept for two years and made available to the Executive Secretary upon request. Calibration of the plant coal feed rate meters shall be approved by the Executive Secretary. If coal other than bituminous is proposed for use, a notice of intent to modify shall be filed with the Executive Secretary in accordance with Section 3.1, UACR.

5. No main boiler unit shall discharge to the atmosphere:

a. Particulate matter at a rate exceeding:

(1)  $0.020 \text{ lb}/10^6 \text{ BTU}$  heat input

b. Sulfur dioxide at a rate exceeding:

(1)  $0.150 \text{ lbs}/10^6 \text{ BTU}$  heat input

(2) 10.0 percent of the potential combustion concentration

c. Nitrogen oxides at a rate exceeding:

(1)  $0.550 \text{ lbs}/10^6 \text{ BTU}$  heat input

d. Visible emissions in excess of 20% opacity

6. The emission limitations in paragraph 5 above shall be determined by the following procedures:

a. Particulate matter: 40 CFR 60.48a (a (1-6))

b. Sulfur dioxide: 40 CFR 60.48a (b (1+2)) (30 day average)

c. Nitrogen oxides: (1) 40 CFR 60.48a (c) (30 day average)

d. Opacity: 40 CFR 60, Appendix A, Method 9, and/or by six minute averages of the output of the continuous emission monitor required by 40 CFR 60.47 (a) and the Utah Air Conservation Regulations (UACR), Section 4.6.

e. Performance testing shall be completed by the time frame required by 40 CFR 60.8 a. For the purpose of 40 CFR 60.8 a, maximum production rate shall be a boiler heat input of  $7.517 \times 10^9$  BTU/hr and initial startup shall be the first day electricity is produced by the generator.

7. Emission of particulate matter from the following dust collectors shall not exceed a concentration of 0.024 gr/dscf and the following rates:

a. (1) railcar unloading (4 units)	15.3 lbs/hr each unit
- (2) transfer building one	7.1 lbs/hr
(3) unit one 13A	6.9 lbs/hr
(4) transfer building two	5.5 lbs/hr

(5) transfer building four	3.7 lbs/hr
(6) crusher building one	3.8 lbs/hr
(7) unit one 13B	3.5 lbs/hr
(8) unit two 14A	4.1 lbs/hr
(9) unit two 14B	3.5 lbs/hr
(10) limestone preparation building	3.5 lbs/hr

b. Stack testing of the dust collectors listed in 7.a (1, 2, & 3) above shall be completed within 60 days of startup of each unit. Stack testing of collectors listed in 7.a (4 through 10) shall be as directed by the Executive Secretary. Ducting of gas flow from those dust collectors shall be designed to meet the requirements of 40 CFR 60, Appendix A, Method 1. 40 CFR 60 Methods 2 - 5 shall be used for testing.

8. Visible emissions from the following dust collectors shall not exceed 20% opacity as determined by 40 CFR 60, Appendix A, Method 9:

- a. coal truck unloading
- b. reserve reclaim
- c. limestone truck unloading hopper
- d. reclaim hopper
- e. crusher building
- f. each of the dust collectors listed in 7.a.1 through 10

9. Fugitive emissions from the following sources shall be

minimized by using the control techniques herein and visible emissions from these sources shall not exceed 20% opacity, and shall be evaluated in accordance with Section 4.1.9, UACR:

- a. coal and limestone conveyor belts - enclosed on three sides
- b. coal and limestone dumpers - underground receiving
- c. coal stack out - telescopic spout and wet suppression
- d. coal and limestone reclaim - underground plow
- e. coal and limestone storage active pile - residual moisture
- f. coal and limestone reserve pile - compacting and crusting agent
- g. limestone stack out - telescopic spout
- h. flyash silo unloading - mix with scrubber sludge
- i. coal and limestone haul road - paved
- j. solid waste area access road -  $\text{CaCl}_2$  or other dust suppressant treatment
- k. solid waste haul road - watering
- l. solid waste/soil stockpile - watering
- m. solid waste burial pile - compaction and reseedling

Note: A fugitive dust control plan shall be submitted to the Executive Secretary for approval prior to startup of the specific operations and shall include as a minimum: control techniques proposed, quantity of suppressant (where applicable), and frequency of application (where applicable).

10. Reports required by 40 CFR 60.49a shall be submitted to the Executive Secretary within the time frame specified in (i) of that part.

11. A quality control program for the continuous monitoring system required by 40 CFR 60.47a and Section 4.6, UACR, must be developed and implemented. As a minimum, the quality control program must have written procedures for each of the following activities:

- a. installation of CEMS
- b. calibration of CEMS
- c. zero and calibration checks and adjustments for CEMS
- d. preventive maintenance for CEMS (including parts inventory)
- e. data recording and reporting
- f. program of corrective action for inoperable CEMS
- g. annual evaluation of CEM system

The quality control program must be described in detail, suitably documented, and approved by the Executive Secretary prior to the date of performance testing.

12. The auxiliary boilers shall be installed according to the specifications in the letter dated March 27, 1984.

13. No auxiliary boiler unit shall discharge to the atmosphere

emissions in excess of any of the following rates or concentrations:

a) Particulate - .10 lbs/10<sup>6</sup> BTU

20 lbs/hr

b) SO<sub>2</sub> - .60 lbs/10<sup>6</sup> BTU

100 lbs/hr

c) NO<sub>x</sub> - .35 lbs/10<sup>6</sup> BTU

58 lbs/hr

14. Compliance with the emissions limitations of Paragraph 13 shall be determined with the following test methods:

a) Particulate - 40 CFR 60, Appendix A, Methods 1-5.

b) SO<sub>2</sub> - 40 CFR 60, Appendix A, Methods 1-4 and 6 or 8

c) NO<sub>x</sub> - 40 CFR 60, Appendix A, Methods 1-4 and 7

15. Stack testing for demonstration of compliance with the particulate standard of Paragraph 13 shall be performed within 60 days of initial start-up of the auxiliary boilers. Stack testing for SO<sub>2</sub> and NO<sub>x</sub> shall be performed if directed by the Executive Secretary.

16. Visible emissions from the auxiliary boilers shall not exceed 20% opacity as determined by 40 CFR 60, Appendix A, Method nine.

17. Sulfur content of the fuel combusted in the auxiliary boilers shall not exceed .58% by weight as determined by ASTM method D129. Each delivery of fuel shall be tested. Records of the test results shall be maintained and shall be made available to the Executive Secretary upon request for two years. A summary of each quarter's test results shall be submitted with the quarterly CEM report. The summary shall contain the average sulfur content expressed as percent weight for the quarter.

18. Combined annual fuel oil consumption of the two auxiliary boilers shall not exceed the following:

1st year of operation from August 1, 1985 to July 31, 1986 -  
250,000 barrels (equivalent to 50% capacity factor)

2nd year of operation from August 1, 1986 to July 31, 1987 -  
150,000 barrels (equivalent to 30% capacity factor)

All subsequent years - 50,000 barrels (equivalent to 10% capacity factor)

19. Malfunctions of process or air pollution control equipment

shall be reported and handled in accordance with Section 4.7, UACR, and 40 CFR 60.46a.

20. Post construction monitoring of ambient air for at least one year after startup is required. A monitoring and quality assurance plan for post construction monitoring must be submitted for approval by the Executive Secretary no later than six months before initial startup of either boiler.

21. All installations and facilities authorized by this approval order shall be maintained and operated in proper condition.

The state is required to charge a fee for the review of the modifications. Enclosed is an itemized list of charges. The \$\_\_\_\_\_ is payable to the Utah Department of Health (sent through the Executive Secretary) and is due upon receipt of this order.

Sincerely,

Brent C. Bradford  
Executive Secretary  
Utah Air Conservation Committee

DK/ads

cc: EPA Region VIII (J. Philbrook)

Central Utah District Health Dept.

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